File

339532

Request for Immediate Removal Action

Initial Information Submittal per Fred Rubel

1. Site Name and Location

Duane Marine Salvage Corp.
26 Washington Street (Corner of High Street)
Perth Amboy City, Middlesex County, New Jersey

2. Name of State Contact

Anthony J. Farro, Chief
Bureau of Site Management
Hazardous Site Mitigation Administration
Division of Waste Management
NJ Department of Environmental Protection
CN 028
8 East Hanover Street
Trenton, NJ 08625
(609) 984-2990

3. History/Status of Enforcement Action(s)

This property was the site of a major chemical fire on 7/7/80. Prior to that event, litigation charging improper and unauthorized hazardous waste operations was begun in 1979. Repeated DEP notices were ignored by the owners and in June, 1981 New Jersey Spill Fund monies were used to secure the site. Vandalism since that time and continued deterioration have returned the situation to its initial post-fire hazard.

4. Type of Activity Suggested for Immediate Removal

While in similar circumstances it would appear sufficient to simply secure the site, such action was previously taken and repeated vandalism has resulted in free access, further deterioration of containers and a strong likelihood of additional waste dumping. It will, therefore, be necessary te remove all contaminated materials and objects permanently.

5. Estimated Cost for Activity and Rationale for Cost Estimate Development

To be determined by the contractor upon selection.

6. Estimated Date of Remedial Action If Not Done as a Removal - 1st Quarter of CY87

7. Why State/Responsible Party Cannot Handle in a Timely Manner

This site was rejected as a candidate for the National Priorities List due to an artificially low score inherent to HRS treatment of urban areas. It has not yet been scheduled within the New Jersey Management Plan and it is, therefore, not expected to be addressed until 1987.

8. Immediate and Significant Risk of Harm to Human Life or Health or to the Environment

This property is located in a heavily-populated and densely-industrialized area. There is evidence of frequent trespass, resulting in a significant risk to human life and health due to the volatility and toxicity of the materials. Runoff from the site travels to the Arthur Kill, a navigable waterway and the property is suspected as a contributor to the wide-spread PCB problem in Perth Amboy which poses a direct threat to a large number of residents.

9. Where Project May Approach or Exceed Six Months and/or One Million Dollars, What Committment Will the State Make to Complete the Work?

The State of New Jersey is wholly committed to completion of this project and will supply whatever resources are necessary beyond the above-established limits to finish the task.

10. Who in DEP is Requesting this Action?

Robert E. Hughey, Commissioner
New Jersey Department of Environmental Protection

11. Attached Documentation

a. Analytical results of samples taken throughout the site
b. Map of site location
c. Memorandum on site deterioration

ADM-012

**MEMO**

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO Edwin Liu

FROM Joe Buttich DATE March 5, 1982

SUBJECT Duane Marine Corporation, Washington and Front Streets, Perth Amboy, New Jersey DHM #81-3-30-10

I. Purpose of Report:

At your request the following is a list of all analytical data received from the above subject location by the Division of Hazard Management, Bureau of Technical Services.

II. Discussion - Section One

On 6/12/81, Joe Buttich, Scott Santora and Joe Goliszewski traveled to Perth Amboy to take samples at the Duane Marine Fire site. The samples were taken at various locations on the property, a list of the locations and results are as follows:

| Sample # | Location | Parameter | Analytical Results from Princeton Aqua Science | |
|---|---|---|---|---|
| C-41960 | Large Green Storage Tanker | Volatile Organics PCB's | Volatile Organics/ppm | |
| Correspond to Stablex-Reutter C-27665 C-27666 C-27667 | | | Bromoform | 1730 |
| | | | Dichlorobromomethane | 516 |
| | | | Ethylbenzene | 2860 |
| | | | Tetrachloroethylene | 1550 |
| | | | Trichloroethylene | 300 |
| | | | Total-Xylene | 5000 |
| | | | PCB's/1254 | 176 |
| C-41961 | White 300 Barrel Tank #1 | Volatile Organics PCB's | Volatile Organics | |
| Correspond to Stablex-Reutter C-27661 | | | Bromoform | 152 |
| | | | Dichlorobromoethane | 119 |
| | | | Ethylbenzene | 76 |
| | | | Toluene | 147 |
| | | | Total-Xylene | 586 |
| | | | PCB/1254 | 8 |
| | | | 1,1,1 - Trichlroethane | 27 |
| | | | 1,2 - Dichloroethane | 3. |
| | | | Trichloroethylene | 4. |
| C-41962 | White 300 Barrel Tank #2 | Volatile Organics PCB's | Volatile Organics | |

continued . . .

| Sample # | Location | Parameter | Analytical Results from Princeton Aqua Science | |
|---|---|---|---|---|
| Correspond to Stablex-Reutter C-27660 | | | Bromoform | 30 |
| | | | Chlorolbenzene | 13.8 |
| | | | Ethylbenzene | 49 |
| | | | Toluene | 59 |
| | | | Total-Xylene | 53.4 |
| | | | PCB/1254 | 156 |
| C-41963 | Tanker #120 NJSWA 1177AQS | Volatile Organics PCB's | Volatile Organics | |
| Correspond to Stablex-Reutter C-27664 | | | Chlorobenzene | 6.0 |
| | | | 1,2 - Dichloroethane | 4.2 |
| | | | 1,2 - Dichloropropane | 4.5 |
| | | | Ethylbenzene | 1130 |
| | | | Trichloroethane | 16 |
| | | | Toluene | 1630 |
| | | | Total-Xylene | 2720 |
| | | | PCB/1254 | 769 |
| C-41964 | Tank #1 | Volatile Organics PCB's | Volatile Organics | |
| Correspond to Stablex-Reutter C-27657 | | | Bromoform | 3840 |
| | | | 1,2 - Dichloroethane | 358 |
| | | | Ethylbenzene | 2650 |
| | | | 1,1,2,2 - Tetrachlorethane | 282 |
| | | | 1,1,2 - Trichbroethane | 623 |
| | | | Trichloroethene | 10000 |
| | | | Toluene | 3860 |
| | | | Dichlorobromomethane | 11200 |
| | | | Total-Xylene | 5120 |
| C-41965 | Tank #2 | Volatile Organics PCB's | Volatile Organics | |
| Correspond to Stablex-Reutter C-27658 | | | Bromoform | 770 |
| | | | 1,2 - Dichloroethane | 29 |
| | | | Ethylbenzene | 230 |
| | | | 1,1,2,2 - Tetrachloroethane | 70 |
| | | | Trichloroethene | 60 |
| | | | Toluene | 930 |
| | | | Dichlorobromomethane | 470 |
| | | | Total-Xylene | 852 |

continued . . .

| Sample # | Location | Parameter | Analytical Results from Princeton Aqua Science | |
|---|---|---|---|---|
| C-41966 | Tank #3 | Volatile Organics PCB's | Volatile Organics | |
| Correspond to Stablex-Reutter C-27659 | | | Bromoform | 3550 |
| | | | 1,2 - Dichloroethane | 550 |
| | | | Ethylbenzene | 1810 |
| | | | 1,1,1 - Trichloroethane | 1050 |
| | | | Trichloroethene | 600 |
| | | | Toluene | 7210 |
| | | | Dichlorobromomethane | 4800 |
| | | | Total-Xylene | 1770 |
| | | | PCB/1254 | 195 |
| C-41967 | Red Tanker Approximately 5000 gallons | Volatile Organics PCB's | Volatile Organics | |
| Correspond to Stablex-Reutter C-27656 | | | 1,2 - Dichloroethane | 162 |
| | | | Trans-1,2 - Dichloroethane | 294 |
| | | | Ethylbenzene | 1590 |
| | | | 1,1,2,2 - Tetrachloroethane | 300 |
| | | | Trichloroethene | 370 |
| | | | Toluene | 240 |
| | | | Total-Xylene | 2738 |
| | | | PCB/1254 | 60 |
| C-41968 | Roll-off Tanker | Volatile Organics PCB's | Volatile Organics | |
| Correspond to Stablex-Reutter C-27655 | | | Bromoform | 2510 |
| | | | Chlorobenzene | 7 |
| | | | 1,2 - Dichloroethane | 162 |
| | | | Trans-1,2 - Dichloroethane | 294 |
| | | | Ethylbenzene | 1590 |
| | | | 1,1,2,2 - Tetrachloroethane | 300 |
| | | | Trichloroethene | 370 |
| | | | Toluene | 240 |
| | | | Dichlorobromomethane | 1100 |
| | | | Total-Xylene | 2738 |
| | | | PCB/1254 | 60 |

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| Sample # | Location | Parameter | Analytical Results from Princeton Aqua Science | |
|---|---|---|---|---|
| C-41970 | White Tanker | Volatile Organics PCB's | Volatile Organics | |
| Correspond to Stablex-Reutter C-27652 C-27653 C-27654 | | | Bromoform | 1640 |
| | | | 1,2 - Dichloroethane | 1580 |
| | | | Ethylbenzene | 586 |
| | | | 1,1,2,2 - Tetrachloroethane | 613 |
| | | | Tetrachloroethene | 770 |
| | | | Toluene | 189 |
| | | | Dichlorobromomethane | 3820 |
| | | | Total-Xylene | 2310 |
| C-41971 | Red Tanker | Volatile Organics PCB's | Volatile Organics | |
| Corresponds to Stablex-Reutter C-27651 | | | Bromoform | 534 |
| | | | Chloroform | 411 |
| | | | 1,2 - Dichloroethane | 35 |
| | | | 1,2 - Dichloropropane | 1480 |
| | | | Tetrachloroethene | 5380 |
| | | | Trans-1,2 - Dichloroethylene | 77.4 |
| | | | Total-Xylene | 6120 |
| | | | PCB/1254 | 292 |

Section Two

Analytical results of samples taken by Joe Buttich and Steve Borgianini on 8/11-12/81 at the Duane Marine site and analyzed by the Stablex-Reutter Laboratory in Camden, New Jersey for Polychlorinated Biphenyls. The results of the analysis are as follows:

| Sample # | Sample Location | Sampling Method | Analyzing Laboratory | Date/Time |
|---|---|---|---|---|
| C-27651 (Tank #1) | Red Tanker | Dip Sample | Stablex-Reutter | 8/11/81 1020 hrs. |

| Results Obtained | Confirmed Results | PCB Type |
|---|---|---|
| 14 ppm GS-HSD | 9 ppm | 1221 ? |

contined . . .

| Sample | Sample Location | Sampling Method | Analyzing Laboratory | Date/Time |
|---|---|---|---|---|
| C-27652<br>C-27653<br>C-27654<br>(Tank #3) | White Tanker Plate # TN-1076 | Dip Sample | Stablex-Reutter | 8/11/81 Rear 1100 hrs.<br>Mid. 1110 hrs.<br>Frt. 1115 hrs. |

| Results Obtained | Confirmed Results | PCB Type |
|---|---|---|
| 5.1 ppm rear<br>34 ppm mid<br>6.3 ppm frt. | 8 ppm<br>45 ppm<br>10 ppm | 1221<br>1221<br>1221 |

| Sample # | Sample Location | Sampling Method | Analyzing Laboratory | Date/Time |
|---|---|---|---|---|
| C-27655<br>(Tanker #4) | White Roll-Off Tanker | Coliswa | Stablex-Reutter | 8/11/81 1155 hrs. |

| Results Obtained | Confirmed Results | PCB Type |
|---|---|---|
| 7.8 ppm<br>GC-HSD | 12 ppm | 1221 |

| ample # | Sample Location | Sampling Method | Analyzing Laboratory | Date/Time |
|---|---|---|---|---|
| -27656<br>ank #5) | Red Tanker Plate # TX-2795 | Coliswa | Stablex-Reutter | 8/11/81 1155 hrs. |

| Results Obtained | Confirmed Results | PCB Type |
|---|---|---|
| 1 ppm<br>GC-HSD | 1 ppm | 1221 |

| iple # | Sample Location | Sampling Method | Analyzing Laboratory | Date/Time |
|---|---|---|---|---|
| 7657<br>nk #6) | Tank #1 of 3 Horizontal | Coliswa | Stablex-Reutter | 8/11/81 1205 hrs. |

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| | Results Obtained | Confirmed Results | PCB Type |
|---|---|---|---|
| | 1.7 ppm GC-HSD | 8 ppm | 1221 |

| Sample # | Sample Location | Sampling Method | Analyzing Laboratory | Date/Time |
|---|---|---|---|---|
| C-27658 (Tank #7) | Tank #2 of 3 Horizontal | Coliswa | Stablex-Reutter | 8/11/81 1225 hrs. |

| | Results Obtained | Confirmed Results | PCB Type |
|---|---|---|---|
| | 1 ppm GC-HSD | 1 ppm | 1221 |

| Sample # | Sample Location | Sampling Method | Analyzing Laboratory | Date/Time |
|---|---|---|---|---|
| C-27659 (Tank #8) | Tank #3 of 3 Horizontal | Dip Sample | Stablex-Reutter | 8/11/81 1235 hrs. |

| | Results Obtained | Confirmed Results | PCB Type |
|---|---|---|---|
| | 4.3 ppm GC-HSD | 10 ppm | 1221 |

| Sample # | Sample Location | Sampling Method | Analyzing Laboratory | Date/Time |
|---|---|---|---|---|
| C-27662 (Tank #9) | Small Tank #9 | Thief Sample | Stablex-Reutter | 8/11/81 1300 hrs. |

| | Results Obtained | Confirmed Results | PCB Type |
|---|---|---|---|
| | <1 ppm GS-HSD | <1 ppm | 1221 |

| Sample # | Sample Location | Sampling Method | Analyzing Laboratory | Date/Time |
|---|---|---|---|---|
| C-27663 (Tank #10) | Small Tank #10 | Thief Sample | Stablex-Reutter | 8/11/81 1305 hrs. |

continued . . .

| Results Obtained | Confirmed Results | PCB Type |
|---|---|---|
| 11 ppm GC-HSD | 15 ppm | 1221 |

| Sample # | Sample Location | Sampling Method | Analyzing Laboratory | Date/Time |
|---|---|---|---|---|
| C-27664 (Tanker #11) | Black Tanker NJSWA 1177AQS | Thief Sample | Stablex-Reutter | 8/11/81 1315 hrs. |

| Results Obtained | Confirmed Results | PCB Type |
|---|---|---|
| < 1 ppm GC-HSD | < 1 ppm | 1221 |

| Sample # | Sample | Sampling Method | Analyzing Laboratory | Date/Time |
|---|---|---|---|---|
| C-27661 (Tank #12) | White 300 Barrel Tank | Thief Sample | Stablex-Reutter | 8/11/81 1250 hrs. |

| Results Obtained | Confirmed Results | PCB Type |
|---|---|---|
| < 1 ppm GC-HSD | < 1 ppm | 1221 |

| Sample # | Sample Location | Sampling Method | Analyzing Laboratory | Date/Time |
|---|---|---|---|---|
| C-27660 (Tank #13) | Vat Closest to Fence 2nd White | Thief Sample | Stablex-Reutter | 8/11/81 1245 hrs. |

| Results Obtained | Confirmed Results | PCB Type |
|---|---|---|
| < 1 ppm GC-HSD | < 1 ppm | 1221 |

continued . . .

| Sample # | Sample Location | Sampling Method | Analyzing Laboratory | Date/Time |
|---|---|---|---|---|
| C-27665<br>C-27666<br>C-27667<br>(Tank #14) | Large Green Storage Tank | Dip Sample and Kemmerer Sampler | Stablex-Reutter | 8/11/81 Top-1350 hrs.<br>Mid.-0945 hrs.<br>Bot.-0955 hrs.<br>Mid. & Bot. taken on 8/12/81 |

| Results Obtained | Confirmed Results | PCB Type |
|---|---|---|
| 100 ppm Top | 110 ppm | 1216 |
| 9.3 ppm Mid. | 9.0 ppm | 1221 |
| 120 ppm Bot. | 140 ppm | 1216 |
| GC-HSD | | |

Section Three

The following results are from samples taken on 9/2/81 from the six roll-off dumpsters located on the Duane Marine Property. The samples were taken by Joe Buttich and Steve Borgianini and submitted to the Stablex-Reutter Laboratory for analysis.

| Sample # | Location | Parameter | Sampling Method | Results (ppm) | |
|---|---|---|---|---|---|
| C-41876 | Roll-off R-1 | Priority Pollutants | Clean Trowel | Benzene | 500 |
| | | | | Toluene | 2100 |
| | | | | Ethyl Benzene | 3700 |
| | | | | Total-Xylene | 19000 |
| | | | | Arsenic | .083 |
| | | | | Chromium | 63 |
| | | | | Coppor | 34 |
| | | | | Lead | 290 |
| | | | | Nickel | 9.1 |
| | | | | Selenium | .03 |
| | | | | Zinc | 46 |
| C-41877 | Roll-off R-2 | Priority Pollutants | Clean Trowel | Dimethyl phthalate | 48 |
| | | | | Butyl Benzyl phthalate | 150 |
| | | | | Methylene Chloride | 170 |
| | | | | 1,1,1 - Trichloroethane | 1500 |
| | | | | Benzene | 130 |
| | | | | Tetrachloroethylene | 4.7 |
| | | | | Toluene | 1100 |
| | | | | Total-Xylene | 1200 |

continued . . .

| Sample # | location | Parameter | Sampling Method | Results (ppm) | |
|---|---|---|---|---|---|
| | | | | Antimony | .97 |
| | | | | Arsenic | .39 |
| | | | | Cadmium | 2.5 |
| | | | | Chromium | 310 |
| | | | | Copper | 610 |
| | | | | Lead | 1900 |
| | | | | Nickel | 80 |
| | | | | Selenium | .04 |
| | | | | Zinc | 340 |
| C-41878 | Roll-off R-3 | Priority Pollutants | Clean Trowel | Phenol | 37 |
| | | | | Dimethylphthalate | 33 |
| | | | | Methylene Chloride | 19 |
| | | | | 1,2 - Dichloropropane | 75 |
| | | | | Benzene | 28 |
| | | | | Toluene | 210 |
| | | | | Ethylbenzene | 140 |
| | | | | Total-Xylene | 470 |
| | | | | Arsenic | .20 |
| | | | | Chromium | 9.0 |
| | | | | Copper | 48 |
| | | | | Lead | 21 |
| | | | | Mercury | .80 |
| | | | | Nickel | 6.5 |
| | | | | Selenium | .04 |
| | | | | Zinc | 68 |
| C-41879 | Roll-off R-4 | Priority Pollutants | Clean Trowel | Dimethylphthalate | 21 |
| | | | | Butyl Benzyl phthalate | 42 |
| | | | | Methylene Chloride | 13 |
| | | | | 1,1,1 - Trichloroethane | 62 |
| | | | | Tetrachloroethylene | 7.4 |
| | | | | Toluene | 160 |
| | | | | Ethylbenzene | 25 |
| | | | | Total-Xylene | 150 |
| | | | | Arsenic | .48 |
| | | | | Cadmium | 22 |
| | | | | Chromium | 120 |
| | | | | Copper | 42 |
| | | | | Lead | 270 |
| | | | | Nickel | 43 |
| | | | | Selenium | .04 |
| | | | | Silver | 160 |
| | | | | Zinc | 530 |

continued . . .

| Sample # | Location | Parameter | Sampling Method | Results (ppm) | |
|---|---|---|---|---|---|
| C-41880 | Roll-off R-5 | Priority Pollutants | Clean Trowel | Methylene Chloride | 52 |
| | | | | 1,1,1 - Trichloroethane | 60 |
| | | | | Tetrachloroethylene | 36 |
| | | | | Toluene | 19000 |
| | | | | Ethylbenzene | 1200 |
| | | | | Total-Xylene | 5600 |
| | | | | Chromium | 47 |
| | | | | Copper | 66 |
| | | | | Lead | 72 |
| | | | | Nickel | 130 |
| | | | | Selenium | .06 |
| | | | | Silver | 3.0 |
| | | | | Zinc | 400 |
| C-41881 | Roll-off R-6 | Priority Pollutants | Clean Trowel | Dimethylphthalate | 6.6 |
| | | | | Butyl Benzyl phthalate | 48 |
| | | | | Benzene | 60 |
| | | | | Toluene | 330 |
| | | | | Chromium | 8.5 |
| | | | | Copper | 3.0 |
| | | | | Total Cyanides | 3.0 |
| | | | | Lead | 23 |
| | | | | Mercury | .40 |
| | | | | Nickel | 3.0 |
| | | | | Selenium | .04 |
| | | | | Silver | .50 |
| | | | | Zinc | 180 |

Section Four

On 11/19/81 samples were taken at the Duane Marine Property of Tanks #11 and #12. The samples were taken by Joe Buttich, Steve Borgianini, and John Tomasiello. The samples were submitted to the ETC Laboratory in Edison, New Jersey, for PCB analysis. The analytical results are as follows:

| Sample # | Sample Location | Sample Method | Parameters | Results (ppm) |
|---|---|---|---|---|
| #11 | Vat #12 | Peterson Dredge | PCB's | 28 (PCB 1232) |
| #12 | Vat #13 | Peterson Dredge | PCB's | N.D. |

continued . . .

Section Five

Analytical data received from the N.J.S.H.D. of samples taken by Peter Rempe (Moran Crowley Diver). The samples were taken inside of the sewer lines directly under the Duane Marine site. The following is a list of analytical results received:

| Sample # | Parameter | Location | Results (ppm) | |
|---|---|---|---|---|
| C-14021 | PCB's | Sewer sludge approximately 30 ft. from Washington and Front Streets. Sludge Top | Wet 21.5<br>Dry 65.3 | (PCB 1248) |
| C-14022 | PCB's | Sewer approximately 30 ft. from Washington and Front Streets Middle Layer | Wet 3.7<br>Dry 7.0 | (PCB 1248) |
| C-14023 | PCB's | Sewer approximately 30 ft. from Washington and Front Streets Bottom Layer | Wet .9<br>Dry .9 | (PCB 1248) |
| C-14024 | PCB's | E.L. Beth Manhole Sludge Top Sludge | Wet 3.2<br>Dry 9.0 | (PCB 1260) |

Section Six

Results from air samples taken from the Duane Marine Corporation during the July 1980 fire. The samples were taken on 7/7/80 by the New Jersey Institute of Technology Air Pollution Research Laboratory.

| Sample I.D. | Location | Time | Results (ppb) | |
|---|---|---|---|---|
| A | East of Buildings Near Burning Barrels | 1500 hrs. | Chloroform | 24 |
| | | | Benzene | 180 |
| | | | Carbon Tetrachloride | 64 |
| | | | Trichloroethylene | 8.5 |
| | | | 1,1,2 - Trichloroethane | 13 |
| | | | Toluene | 1370 |
| | | | 1,2 - Dibromoethane | .35 |
| | | | Tetrachloroethylene | 1.4 |
| | | | Chlorobenzene | 8.2 |
| | | | Ethylbenzene | 114 |
| | | | M+P-Xylene | 240 |
| | | | Styrene | 216 |
| | | | O-Xylene | 213 |
| | | | 1,1,2,2 - Tetrachloroethane | .60 |
| | | | Nitrobenzene | 114 |

continued . . .

| | | | | |
|---|---|---|---|---|
| B | Across Washington Street just South of Fire | 1500 hrs. | Vinyl Chloride | 60 |
| | | | Chloroform | .90 |
| | | | Benzene | 42 |
| | | | Carbon Tetrachloride | Trace |
| | | | Trichloroethylene | .85 |
| | | | 1,1,2 - Trichloroethane | Trace |
| | | | Toluene | 150 |
| | | | 1,2 - Dibromoethane | .12 |
| | | | Tetrachloroethylene | .58 |
| | | | Chlorobenzene | 2.3 |
| | | | Ethylbenzene | 16 |
| | | | M+P-Xylene | 46 |
| | | | Styrene | 34 |
| | | | O-Xylene | 13 |
| C | Inside North Terminal of Burned Out Building | 1255 hrs. | Chloroform | 7.0 |
| | | | Benzene | 500 |
| | | | Carbon Tetrachloride | 1.4 |
| | | | Trichloroethylene | 5.3 |
| | | | 1,1,2 - Trichloroethane | 14 |
| | | | Toluene | 110 |
| | | | Tetrachloroethylene | 14 |
| | | | Chlorobenzene | 46 |
| | | | Ethylbenzene | 31 |
| | | | M+P-Xylene | 24 |
| | | | Styrene | 80 |
| | | | O-Xylene | 9.4 |
| | | | 1,1,2,2 - Tetrachloroethane | .46 |
| D | East of Burned Smoldering Building | 1255 hrs. | Chloroform | 1.8 |
| | | | Benzene | 120 |
| | | | Carbon Tetrachloride | .64 |
| | | | Trichloroethylene | 1.9 |
| | | | 1,12, - Trichlorethane | 6.5 |
| | | | Toluene | 33 |
| | | | Tetrachlorethylene | 4.7 |
| | | | Chlorobenzene | 9.1 |
| | | | Ethylbenzene | 5.9 |
| | | | M+P-Xylene | 7.3 |
| | | | Styrene | 7.5 |
| | | | O-Xylene | 2.5 |
| E | Across High Street Southwest of Smoldering Building | 1310 hrs. | Chloroform | .34 |
| | | | Benzene | 5.2 |
| | | | Carbon Tetrachloride | Trace |
| | | | Trichloroethylene | .61 |

continued . . .

| Sample I.D. | Location | Time | Results (ppb) | |
|---|---|---|---|---|
| (cont. from E) | | | | |
| | | | 1,1,2 - Trichloroethane | 6.8 |
| | | | Toluene | 9.2 |
| | | | 1,2 - Dibromoethane | .06 |
| | | | Tetrachloroethylene | 3.1 |
| | | | Chlorobenzene | 1.1 |
| | | | Ethylbenzene | 2.7 |
| | | | M+P-Xylene | 6.0 |
| | | | Styrene | 2.7 |
| | | | O-Xylene | 1.9 |
| F | Police Station<br>New Brunswick<br>South of Burned<br>Industrial Complex | 1345 hrs. | Chloroform | .36 |
| | | | Benzene | 3.3 |
| | | | Carbon Tetrachloride | .15 |
| | | | Trichloroethylene | .37 |
| | | | 1,1,2 - Trichloroethane | 8.3 |
| | | | Toluene | 5.8 |
| | | | 1,2 - Dibromoethane | .07 |
| | | | Tetrachloroethylene | .77 |
| | | | Chlorobenzene | .27 |
| | | | Ethylbenzene | .81 |
| | | | M+P-Xylene | 2.6 |
| | | | Styrene | .74 |
| | | | O-Xylene | .64 |

III. Conclusion

All results received by the Bureau of Technical Services from the Duane Marine site are included in this memo.

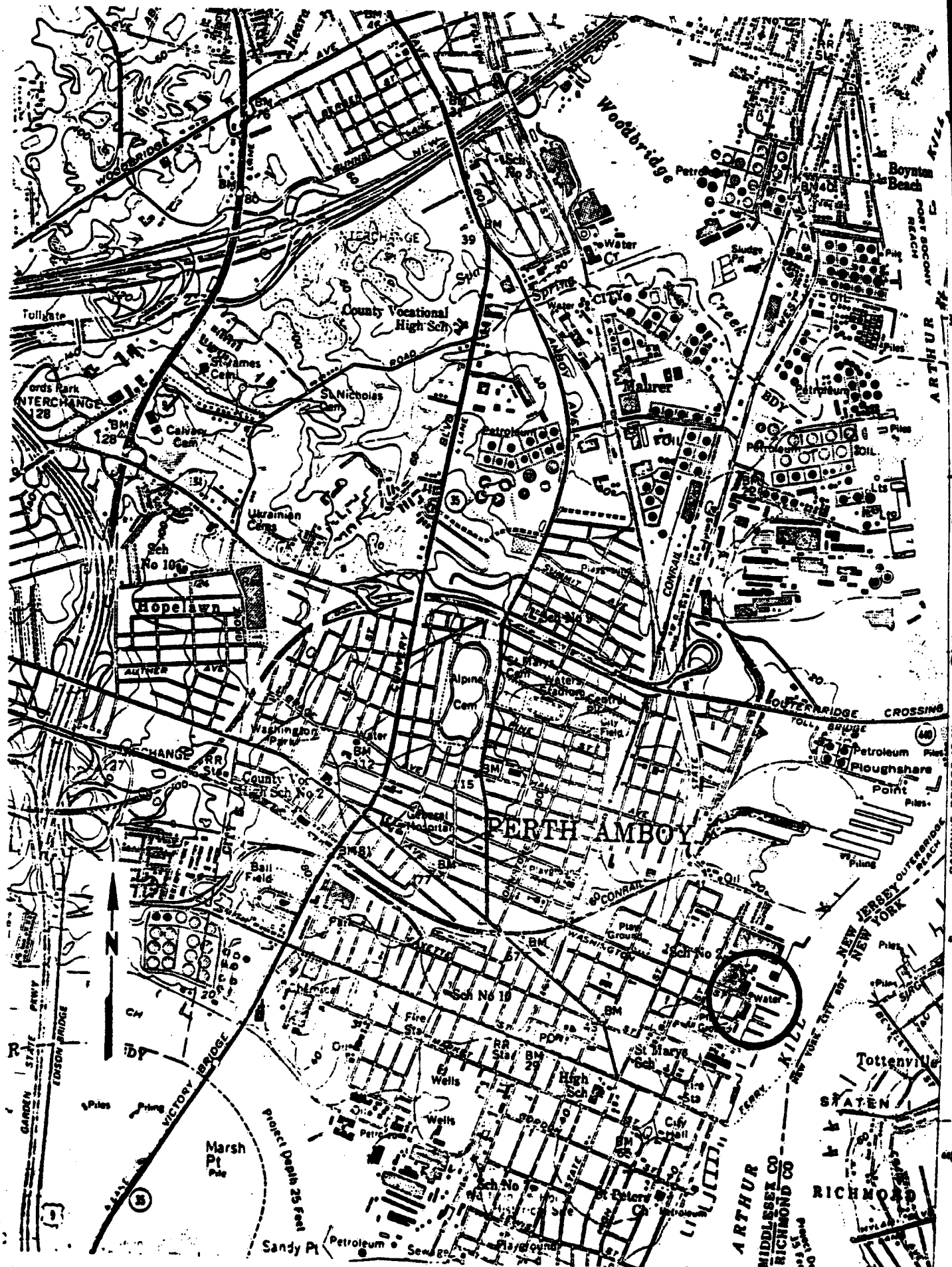
Joseph S. Buttich
Environmental Specialist
Bureau of Technical Services

cb

• **DUANE MARINE**

**PERTH AMBOY CITY**
**MIDDLESEX CO.**

**USGS PERTH AMBOY**
**1:24,000**




**Site Name**

Duck Isl
Hamilton
Mercer 6

**Site Des**

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ANTHONY J. FARRO, Bureau Chief - Bureau of Site Management

EDWIN LIU through GEORGE KING, Section Chief-BSM

8 DEC 1982

DUANE MARINE

On December 2, 1982, Edwin Liu, Steve Borgianini, and Joe Maher, Division of Waste Management, conducted a site inspection at Duane Marine, Perth Amboy.

The site had been inspected numerous times by Edwin Liu and Steve Borgianini prior to this date. The condition of the site has deteriorated considerably since our last inspection, and the conditions listed below were observed in the following areas:

A. Site Security

1. The chain and lock on the gate by Washington Street has been removed by an unknown source.

2. Two window cages on the side of the building adjacent to Washington Street have been torn off the wall by an unknown source.

3. One section of the fence between Duane Marine and E. L. Beth property has been cut. Five or six other sections were cut and removed by an unknown source.

4. Rafts staged behind the dike area by Arthur Kill were removed by an unknown source.

B. Bulk Storage Tanks

1. The chain, lock, and DEP seal were removed from the two 5,000 gallon tanks, No. 7 and No. 8, within the dike area. The interior of the tanks was not inspected to determine whether material had been added or removed due to lack of equipment.

2. Tank No. 8 also showed signs of metal corrosion since there are several holes on the tank. The integrity of the tank is, therefore, questionable.

3. The integrity of the covers on the two white 10,000 gallon vats was questionable.

4. The cover has been removed on the round vat, No. 11, thus allowing rainwater to displace the contents.

C. Tankers and Trailers

1. A red, 6,000 gallon tanker, No. 5, on the parking area adjacent to the dike area was observed to be leaking on the ground.

2. Covers for the discharge valve on two tankers were removed.

D. Drums

1. Pallets on which drums were resting were deteriorating. Some drums had fallen over and some spillage had also occurred. Material was also observed to be oozing out of some drums.

2. Approximately ten (10) drums had been placed inside the building. Since the integrity of the building was questionable, we did not investigate any further.

3. Since the previous pictures taken at the site could not be located, we cannot confirm the following:

   a) A trailer containing booms, which was situated by Dumpster No. 5, seems to be missing.

   b) There seems to be an additional trailer located next to the office trailer containing mostly vermiculite, empty plastic and steel drums. Some drums were pushed out of the trailer on the ground. There were also drums containing oil-soaked debris.

E. Roll-Off Dumpsters

1. All the dumpsters were leaking rainwater and/or material due to rainwater intrusion. Plywood used on top of these dumpsters to retard rainwater intrusion was either removed or warped since all c-clamps used were also removed by an unknown source.

2. The end of Dumpster No. 5 has split open. The material in the dumpster was being held back by the plastic liner. It is only a matter of time before the contents will be discharged on the ground and, subsequently, into Arthur Kill.

Based on the above observations, it is recommended that prompt action be taken to resecure the site and cleanup be undertaken as soon as possible.

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cc: Kathleen McGill
J. Maher
S. Borgianini
File

failed to comply with the terms and conditions of the consent order in question. This was true despite numerous applications by DEP to the court to enforce the terms of the consent order.

On July 7, 1980, as you know, there was a fire at the Duane Marine facility which substantially destroyed the operations there. On July 18, 1980 the parties appeared before the court at which time Duane Marine's attorney represented to the court that the company had no interest in continuing operations as a special waste facility on the premises in question. The court ordered Duane Marine to undertake an immediate cleanup of all the remaining drums and rubble at the site. The company failed to comply with this order as well. On July 31, 1981 our office filed an application with the court seeking compliance with the July 18, 1980 court order. The State's application was made returnable in August, however, negotiations followed between counsel for the State and Duane Marine's attorney and the return date of the State's motion was adjourned indefinitely. Needless to say, the negotiations between the parties proved fruitless and Duane Marine has still not complied with previous orders of the court to clean up its property.

Again, in light of the history of this case and DEP's desire to conduct cleanup of the Duane Marine property as soon as possible, it is my opinion that a ten-day directive letter should be sent to the company and its owners and/or operators immediately. Thereafter, a State-funded cleanup should take place, after which we will sue the company and its principals for three times the cost of cleanup.

If for some reason DEP is unable to effectuate a cleanup within the next few months, please let me know so that I can pursue other remedies we might have against Duane Marine.

If you need any further information concerning this matter or require copies of the court papers, let me know.

R.P.H.

RPH/bf

cc: Lawrence E. Stanley, DAG